

Serial Number: 10005211

CRF Processing Date: 12/12/01
Edited by: DC
Verified by: (STIC sta) Changed a file from non-ASCII to ASCII Changed the margins in cases where the sequence text was "wrapped" down to the next line Edited a formal error in the Current Application Data section, specifically: Edited the Current Application Data section with the actual current number. The number inputted by the applicant was the prior application data; or other Added the mandatory heading and subheadings for "Current Application Data". Edited the "Number of Sequences" field. The applicant spelled out a number instead of using an integer. Changed the spelling of a mandatory field (the headings or subheadings), specifically: Corrected the SEQ ID NO when obviously incorrect. The sequence numbers that were edited were: Inserted or corrected a nucleic number at the end of a nucleic line. SEQ ID NO's edited: Corrected subheading placement. All responses must be on the same line as each subheading. If the applicant placed a response below the subheading, this was moved to its appropriate place. Inserted colons after headings/subheadings. Headings edited included: Deleted extra, invalid, headings used by an applicant, specifically: Deleted: non-ASCII "garbage" at the beginning/end of files; secretary initials/filename at end of file; page numbers throughout text; other invalid text, such as Inserted mandatory headings, specifically: Corrected an obvious error in the response, specifically: Edited identifiers where upper case is used but lower case is required, or vice versa. Corrected an error in the Number of Sequences field, specifically: A "Hard Page Break" code was inserted by the applicant. All occurrences had to be deleted. Deleted *ending* stop codon in amino acid sequences and adjusted the "(A)Length:" field accordingly (error due to a PatentIn bug). Sequences corrected: Other:

*Examiner: The above corrections must be communicated to the applicant in the first Office Action. DO NOT send a copy of this form.

3/1/95

ENTERED

OIPE

RAW SEQUENCE LISTING
PATENT APPLICATION: US/10/005,211

DATE: 12/17/2001
TIME: 12:05:31

Input Set : A:\PTO.DC.txt
Output Set: N:\CRF3\12172001\J005211.raw

4 <110> APPLICANT: Allen, Keith D.
6 <120> TITLE OF INVENTION: TRANSGENIC MICE CONTAINING
7 POLYCYSTIN-RELATED GENE DISRUPTIONS
10 <130> FILE REFERENCE: R-325
C--> 12 <140> CURRENT APPLICATION NUMBER: US/10/005,211
C--> 12 <141> CURRENT FILING DATE: 2001-12-04
12 <150> PRIOR APPLICATION NUMBER: US 60/256,201
13 <151> PRIOR FILING DATE: 2000-12-13
15 <150> PRIOR APPLICATION NUMBER: US 60/250,999
16 <151> PRIOR FILING DATE: 2000-12-04
18 <160> NUMBER OF SEQ ID NOS: 4
20 <170> SOFTWARE: FastSEQ for Windows Version 4.0
22 <210> SEQ ID NO: 1
23 <211> LENGTH: 2486
24 <212> TYPE: DNA
25 <213> ORGANISM: Mus musculus
27 <400> SEQUENCE: 1
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29 ggtggtaccc agggaggact tcaaaaacatg acctgcatta cagaaggaa gcggaggta 120
30 acaccacact cgaggagttt ttactctatt ttatattctt aataaaatcta tgcattttga 180
31 cttttggat ggtcaatcca catatgtact atttaaacaa agttatgtcg tctctgtttg 240
32 tgacacttc tctacccgtat gatgaaagaa gcagcttagt gtccattcgg agcataactg 300
33 agttttggaa gttcatggaa ggacccctca tcgacggctt gtactggac tcgtggat 360
34 gcaccaaaca gctgtacagt gtgaagaaca gcagccgcat ctactacgag aacgttcttc 420
35 tcggcatccc cagagtgcgg caactgcgag tccgaaacaa cacttgcaag gtctacccag 480
36 cttccagtc cctggtcagc gactgctaca gcaagtacac agtggaaaac gaagacttct 540
37 ctgattttgg cctcaaacgc aatccagaat ggacgcacac gccttcttcc cgcaactgccc 600
38 catggactg ggggtttgtt ggcgtatacc gagatggagg atatatagtc acgttatcaa 660
39 aatcaaaaatc taaaacccaaa gccaaatttgc ttgacccgtt actgaacaac tggatttagca 720
40 gaggcaccag ggctgtttt attgatttgc ccctgtacaa tgctaatgtc aacctgtttt 780
41 gcatcatcag gctgctggca gagttccctg cgacgggtgg gctcctcacc tcctggcagt 840
42 tctactctgt gaagctcctc agatacgtct cctactacga ctacttccatt gcctccgtg 900
43 aagtcatatt ttgtatttt ctctttgtct tcataataca agaactgggg aaagtgaacg 960
44 agtttaagtc tgccttatttc agaagtgtct ggaactggct ggagatgtcg ctccctgtc 1020
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46 gacagctgct gaaaaacact gacagcttcc ccgacttttgc ttcccttgc tactggcaca 1140
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51 aatttcgaat tgcctcggtt gactttact ttgtggcat ccagcaggcc aactggatct 1440
52 tggggccat ctacttcattt acgttcatct tctttgtgtt ctttggctc ctgaacatgt 1500
53 tcttggcaat aattaatgc acctattctg aagttaaaggc tgattattca atagggcagaa 1560
54 gaccagattt tgaacttggt aaaataattt aaaagagttt cttaatgtt ctggagaaac 1620
55 tcagactcaa gaaagctcaa gctaaagaag aaaagaaaaat gcaaaccact gactggccc 1680
56 agagagccag aagagaaggc tttgtatgaaa gtgagatcca agaggcagag cagatgaaaa 1740
57 gatggaagga aaggcttgc aaaaagtattt attctacaga aattcaagac gattatcagc 1800

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58 ctgtcactca gcaagaattc cgagagctct tttatacgc ggtggagctt gagaaggaat 1860
 59 tacactatgt cagttaaaaa ctgaaccaac tggatgaaaa gctgcactag caggctgaca 1920
 60 agtggagtca tttataaga aaaggcaacc gaagaatttc attcagtatg aagattttt 1980
 61 cctctcaatt ttcttcagta atgcaaaaaga aaaaccaaaa agtaaccaga agtgccttt 2040
 62 atttcaaagt tcttgaagta aaagagtaaa actcttgcctt tttgctaaca gccgtgtctg 2100
 63 cagtaaaaca atgaaggagc ctgcgtgttt cctaagtgtg gagaggatct gcggaaatgt 2160
 64 ggaacagctt tccttcctta ctggAACccaa aacaagcac acaatgggac tctctgatg 2220
 65 cctgacaaag tgaacgcaag tacagccaag cacacatggt gaaactgtcag ggaacacaaag 2280
 66 cactttatgg cgtcaacttt caaggaacat attttatatg gatTTGAAG agtcttgcctt 2340
 67 gctgataaga acttcaagaa gtctaagctt ggcttgatt ctcttgatt ccttatattc 2400
 68 ctcaggcacc ggaacacgat ctccttcctg ggcattccta gggaaagataa aactctgtaa 2460
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 72 <211> LENGTH: 621
 73 <212> TYPE: PRT
 74 <213> ORGANISM: Mus musculus
 76 <400> SEQUENCE: 2
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 78 1 5 10 15
 79 Leu His Tyr Arg Arg Glu Ala Glu Val Asn Thr Thr Leu Glu Glu Leu
 80 20 25 30
 81 Leu Leu Tyr Phe Ile Phe Leu Ile Asn Leu Cys Ile Leu Thr Phe Gly
 82 35 40 45
 83 Met Val Asn Pro His Met Tyr Tyr Leu Asn Lys Val Met Ser Ser Leu
 84 50 55 60
 85 Phe Val Asp Thr Ser Leu Pro Asp Asp Glu Arg Ser Ser Phe Arg Ser
 86 65 70 75 80
 87 Ile Arg Ser Ile Thr Glu Phe Trp Lys Phe Met Glu Gly Pro Leu Ile
 88 85 90 95
 89 Asp Gly Leu Tyr Trp Asp Ser Trp Tyr Gly Thr Lys Gln Leu Tyr Ser
 90 100 105 110
 91 Val Lys Asn Ser Ser Arg Ile Tyr Tyr Glu Asn Val Leu Leu Gly Ile
 92 115 120 125
 93 Pro Arg Val Arg Gln Leu Arg Val Arg Asn Asn Thr Cys Lys Val Tyr
 94 130 135 140
 95 Pro Ala Phe Gln Ser Leu Val Ser Asp Cys Tyr Ser Lys Tyr Thr Val
 96 145 150 155 160
 97 Glu Asn Glu Asp Phe Ser Asp Phe Gly Leu Lys Arg Asn Pro Glu Trp
 98 165 170 175
 99 Thr His Thr Pro Ser Ser Arg Thr Ala Pro Trp His Trp Gly Phe Val
 100 180 185 190
 101 Gly Val Tyr Arg Asp Gly Gly Tyr Ile Val Thr Leu Ser Lys Ser Lys
 102 195 200 205
 103 Ser Glu Thr Lys Ala Lys Phe Val Asp Leu Arg Leu Asn Asn Trp Ile
 104 210 215 220
 105 Ser Arg Gly Thr Arg Ala Val Phe Ile Asp Phe Ser Leu Tyr Asn Ala
 106 225 230 235 240
 107 Asn Val Asn Leu Phe Cys Ile Ile Arg Leu Leu Ala Glu Phe Pro Ala
 108 245 250 255

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109 Thr Gly Gly Leu Leu Thr Ser Trp Gln Phe Tyr Ser Val Lys Leu Leu
110 260 265 270
111 Arg Tyr Val Ser Tyr Tyr Asp Tyr Phe Ile Ala Ser Cys Glu Val Ile
112 275 280 285
113 Phe Cys Ile Phe Leu Phe Val Phe Ile Ile Gln Glu Leu Arg Lys Val
114 290 295 300
115 Asn Glu Phe Lys Ser Ala Tyr Phe Arg Ser Val Trp Asn Trp Leu Glu
116 305 310 315 320
117 Met Leu Leu Leu Leu Cys Phe Leu Ala Val Ser Phe Tyr Ala Tyr
118 325 330 335
119 Cys Asn Met Gln Ser Phe Leu Leu Leu Gly Gln Leu Leu Lys Asn Thr
120 340 345 350
121 Asp Ser Tyr Pro Asp Phe Tyr Phe Leu Ala Tyr Trp His Ile Tyr Tyr
122 355 360 365
123 Asn Asn Val Ile Ala Ile Thr Ile Phe Phe Ala Trp Ile Lys Ile Phe
124 370 375 380
125 Lys Phe Ile Ser Phe Asn Glu Thr Met Ser Gln Leu Ser Ser Thr Leu
126 385 390 395 400
127 Ser Arg Cys Met Lys Asp Ile Val Gly Phe Ala Ile Met Phe Phe Ile
128 405 410 415
129 Ile Phe Ser Ala Tyr Ala Gln Leu Gly Phe Leu Val Phe Gly Ser Gln
130 420 425 430
131 Val Asp Asp Phe Ser Thr Phe Gln Asn Ser Ile Phe Ala Gln Phe Arg
132 435 440 445
133 Ile Val Leu Gly Asp Phe Asn Phe Ala Gly Ile Gln Gln Ala Asn Trp
134 450 455 460
135 Ile Leu Gly Pro Ile Tyr Phe Ile Thr Phe Ile Phe Phe Val Phe Phe
136 465 470 475 480
137 Val Leu Leu Asn Met Phe Leu Ala Ile Ile Asn Asp Thr Tyr Ser Glu
138 485 490 495
139 Val Lys Ala Asp Tyr Ser Ile Gly Arg Arg Pro Asp Phe Glu Leu Gly
140 500 505 510
141 Lys Ile Ile Gln Lys Ser Cys Phe Asn Val Leu Glu Lys Leu Arg Leu
142 515 520 525
143 Lys Lys Ala Gln Ala Lys Glu Glu Lys Lys Met Gln Thr Thr Asp Leu
144 530 535 540
145 Ala Gln Arg Ala Arg Arg Glu Gly Phe Asp Glu Ser Glu Ile Gln Glu
146 545 550 555 560
147 Ala Glu Gln Met Lys Arg Trp Lys Glu Arg Leu Glu Lys Lys Tyr Tyr
148 565 570 575
149 Ser Thr Glu Ile Gln Asp Asp Tyr Gln Pro Val Thr Gln Gln Glu Phe
150 580 585 590
151 Arg Glu Leu Phe Leu Tyr Ala Val Glu Leu Glu Lys Glu Leu His Tyr
152 595 600 605
153 Val Ser Leu Lys Leu Asn Gln Leu Met Arg Lys Leu His
154 610 615 620
157 <210> SEQ ID NO: 3
158 <211> LENGTH: 200
159 <212> TYPE: DNA

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160 <213> ORGANISM: Artificial Sequence
162 <220> FEATURE:
163 <223> OTHER INFORMATION: Targeting vector
165 <400> SEQUENCE: 3
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167 aaaaaaatact taggaatgc tgttttttt aagcttggga aattaatatt tttgaacact 120
168 gctgatgtgg gatttaagt tacaaatgtt aaacttgttc tccttagtga cttttggat 180
169 ggtcaatcca catatgtact 200
171 <210> SEQ ID NO: 4
172 <211> LENGTH: 200
173 <212> TYPE: DNA
174 <213> ORGANISM: Artificial Sequence
176 <220> FEATURE:
177 <223> OTHER INFORMATION: Targeting vector
179 <400> SEQUENCE: 4
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181 tcttctcgcc atccccagag tgccggcaact gcgagtcgg aacaacactt gcaaggctta 120
182 cccagcttcc cagtcctgg tcagcgactg ctacagcaag tacacagtgg aaaacgaaga 180
183 cttctctgat tttggcctca 200

VERIFICATION SUMMARY

PATENT APPLICATION: US/10/005,211

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L:12 M:270 C: Current Application Number differs, Replaced Current Application No
L:12 M:271 C: Current Filing Date differs, Replaced Current Filing Date